

**Order of Operations (Algebraic)**

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Date \_\_\_\_\_ Period \_\_\_\_\_

**Evaluate each using the values given.**

1)  $\frac{j}{k - |h| - h^2}$ ; use  $h = \frac{1}{4}$ ,  $j = 3$ , and  $k = 1\frac{1}{2}$

2)  $(8x)\left(\frac{8+x}{z} + x\right)$ ; use  $x = \frac{1}{4}$ , and  $z = 4\frac{3}{8}$

3)  $\frac{x}{|1^2|} - y^2$ ; use  $x = -2\frac{1}{6}$ , and  $y = -3\frac{5}{6}$

4)  $\frac{h}{2 - (j + 2)} - (9 - j)$ ; use  $h = -\frac{8}{9}$ , and  $j = -\frac{1}{7}$

5)  $|m + m| - \left|\frac{p}{1}\right|$ ; use  $m = \frac{4}{3}$ , and  $p = -\frac{6}{5}$

6)  $yx + y - |6| + y$ ; use  $x = 2$ , and  $y = -2\frac{1}{2}$

7)  $\frac{x}{y^2} + |y - y|$ ; use  $x = 5\frac{4}{7}$ , and  $y = -\frac{2}{3}$

8)  $10 - \left(\frac{a}{a} - |2 + b|\right)$ ; use  $a = -10$ , and  $b = -2$

9)  $(m)\left(\frac{n}{m}\right) + \left|\frac{n}{n}\right|$ ; use  $m = -1$ , and  $n = \frac{10}{7}$

10)  $\left(\frac{x}{y}\right)\left(\frac{y+y}{30}\right)$ ; use  $x = 2\frac{1}{3}$ , and  $y = 3\frac{1}{3}$

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**Evaluate each using the values given.**

1)  $\frac{j}{k - |h| - h^2}$ ; use  $h = \frac{1}{4}$ ,  $j = 3$ , and  $k = 1\frac{1}{2}$

$$2\frac{10}{19}$$

2)  $(8x)\left(\frac{8+x}{z} + x\right)$ ; use  $x = \frac{1}{4}$ , and  $z = 4\frac{3}{8}$

$$4\frac{19}{70}$$

3)  $\frac{x}{|1^2|} - y^2$ ; use  $x = -2\frac{1}{6}$ , and  $y = -3\frac{5}{6}$

$$-16\frac{31}{36}$$

4)  $\frac{h}{2 - (j + 2)} - (9 - j)$ ; use  $h = -\frac{8}{9}$ , and  $j = -\frac{1}{7}$

$$-15\frac{23}{63}$$

5)  $|m + m| - \left|\frac{p}{1}\right|$ ; use  $m = \frac{4}{3}$ , and  $p = -\frac{6}{5}$

$$1\frac{7}{15}$$

6)  $yx + y - |6| + y$ ; use  $x = 2$ , and  $y = -2\frac{1}{2}$

$$-16$$

7)  $\frac{x}{y^2} + |y - y|$ ; use  $x = 5\frac{4}{7}$ , and  $y = -\frac{2}{3}$

$$12\frac{15}{28}$$

8)  $10 - \left(\frac{a}{a} - |2 + b|\right)$ ; use  $a = -10$ , and  $b = -2$

$$9$$

9)  $(m)\left(\frac{n}{m}\right) + \left|\frac{n}{n}\right|$ ; use  $m = -1$ , and  $n = \frac{10}{7}$

$$2\frac{3}{7}$$

10)  $\left(\frac{x}{y}\right)\left(\frac{y+y}{30}\right)$ ; use  $x = 2\frac{1}{3}$ , and  $y = 3\frac{1}{3}$

$$\frac{7}{45}$$